

In the drawings:

FIG. 1

- 10 TAPE STREAMER DRIVE
- 4 REMOTE MEMORY CHIP
- 30 REMOTE MEMORY INTERFACE
- 27 SCSI BUFFER MEMORY
- 23 BUFFER MEMORY
- 26 SCSI BUFFER CONTROLLER
- 21 COMPANDER
- 22 IF/ECC CONTROLLER
- 15 SYSTEM CONTROLLER
- 16 SERVO CONTROLLER
- 17 MECHANICAL DRIVER
- 25 FLASH ROM
- 40 HOST COMPUTER
- 45 CONNECTOR BLOCK
- 104 CONTACT TYPE MEMORY

FIG. 2

- 31 DATA INTERFACE
- 32a (RF MODULATOR/AMPLIFIER)
- 32b (RECTIFIER)
- 32c (COMPARATOR)
- 32 (RF INTERFACE)

30 (REMOTE MEMORY INTERFACE)

FIG. 3A

4 REMOTE MEMORY CHIP

FIG. 3B

104 CONTACT TYPE MEMORY

FIG. 5

4a POWER CIRCUIT

5 (ANTENNA)

4c CONTROLLER

4 (REMOTE MEMORY CHIP)

FIG. 6A

MAGNETIC TAPE

FIG. 6B

PARTITION

GROUP

FIG. 6C

GROUP

FRAME

FIG. 6D

FRAME = 2 TRACKSTRACK

FIG. 7A

BLOCK

PARITY

73 BYTES

FIG. 7B

TRACK

MARGIN

PARITY

471 BLOCKS

FIG. 7C

1 FRAME

40 TRACKS = 1 GROUP

FIG. 9

MIC HEADER (FL1 - FL3)

MANUFACTURE PART

SIGNATURE

CARTRIDGE SERIAL NUMBER

CARTRIDGE SERIAL NUMBER CRC  
SCRATCH PAD MEMORY  
MECHANISM ERROR LOG  
MECHANISM COUNTER  
LAST 11 DRIVE LIST  
DRIVE INITIALIZE PART  
VOLUME INFORMATION  
ACCUMULATIVE SYSTEM LOG  
VOLUME TAG  
MEMORY FREE POOL (FL4)  
PARTITION INFORMATION CELL #0  
PARTITION INFORMATION CELL #1  
USER PARTITION NOTE CELL #1  
USER PARTITION NODE CELL #0  
USER VOLUME NOTE CELL  
SUPER-HIGH SPEED SEARCH MAP CELL

FIG. 15

S101 IS CASSETTE LOADED?  
S102 CHECK MIC  
S103 DOES MIC EXIST?  
S104 READ DATA FROM MIC AND HOLD THEM  
S105 READ SYSTEM LOG DATA FROM TAPE AND HOLD THEM  
S106 IS CARTRIDGE SERIAL NO. FOUND ON TAPE?

S107 DOES CARTRIDGE SERIAL NO. FROM TAPE MATCH THAT FROM  
MIC?

S108 CHECK Application ID

S109 DOES SPECIAL CARTRIDGE CATEGORY APPLY?

S110 PERFORM SEQUENCE PROCESS CORRESPONDING TO SPECIAL  
CARTRIDGE TYPE

S111 PERFORM SEQUENCE PROCESS CORRESPONDING TO NORMAL  
CARTRIDGE

S112 PERFORM SEQUENCE PROCESS CORRESPONDING TO  
ILLEGITIMATE CARTRIDGE

S113 PERFORM SEQUENCE PROCESS CORRESPONDING TO NORMAL  
CARTRIDGE

S114 READ SYSTEM LOG DATA FROM TAPE AND HOLD THEM

S115 IS SERIAL NO. FOUND?

S116 PERFORM SEQUENCE PROCESS CORRESPONDING TO  
ILLEGITIMATE CARTRIDGE, OR SET FUNCTION RESTRICTIONS  
APPLICABLE TO CARTRIDGE TYPE

S117 PERFORM SEQUENCE PROCESS CORRESPONDING TO NORMAL  
CARTRIDGE